P.W.G. 17 — 1st and final Bill — Original/Duplicate/Triplicate

NO:

CONTRACT CERTIFICATE

Reference vouchers 168 & 170

Division: Yelahanka — Sub division: Yelahanka New Town — AEE, YSTSD

Bills received No — YNK-DBR No. 27 Date 09.05.17 — Sub-divisional / Divisional / Head of account — Cash book V. No — Date — SBR No: 17/17-18 Date: 06-05-2017

Sheduled Docket No

Name of work(as per sanctioned estimate) :-

Work Code:003-17-000012.

NAME OF WORK :Improvements to roads and drins in Attur village., Govt School road, post office road of Attur ward no 03

Name of contractor and full address :-

Technical Manager (west)

Reference to agreement No :- 144 — **Estimated cost : 50.00** — **Work order No :144 dt:31/03/17**

Certified that the measurments were taken by me on _____ and recorded on pages 465222 to 465232 of measurment book No 4653 and the work is satisfactorily executed by the contractor.

Signature of contractor

Asst. Engineer

Certified that the measurments were taken by me on _____ and recorded correct.The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of account II have been actualy brought to site of work and the contractor has not previously received any advance on this security. These materials are of any imperishable nature and are all required by the contractor for immidiate use on the work in connection with items for which rates finished work have been agreed upon.A formal agreement signed and executed by the contractor is recorded in divisional office.

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
Sub divisional officer
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.

II MEMORANDUM OF PAYMENT

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1) Total value of work done or supplies as per A/c within		
2) Deduct amount to be held in reserve being-----percent Rs----------%--------		
3) Balance---	1st & final	4810812=00
4) Deduct payments		
a) Amount of previous payment as in divisional/sub divisional cash book V. No----------dated----------S.D No----------Amount adjusted towards cash advance recovery of	FSD	240541=00
	IT	96217=00
b) Cost of payments/stores or other materials supplied now made recovery of	KST	192433=00
	LC	48109=00
Amount paid on this bill by cheque/cash	CBF	4810=00
Total	LR	88979=00
5). Balance being unpaid value of work done held in reserve		
6) Deduct cash of advance made on divisional/sub divisional cash book	T.D	671089=00
7) Net amount due to or from contractor.		
UN ADJUSTED ITEMS		
8) Advance to contractor for materials to site(as detailed within)	Net	4139723=00
9) Value of government materials supplied.		
TOTAL AMOUNT UN-ADJUSTED		

Contractor's signatures

Received Rs----------(in words)----------

For use in the Executive Engineer's office

of payment as per memorandum

(in final settlement of all demand)

Witness

1)

2)

Reciept Stamp

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

Dated signature of contractor

paid by me cheque No dated

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

Cash Rs.

Date

Initials of officer making payment

Audited & Admitted for Rs. 4810812=00

Rs. 4139723=00 by Cheque

Rs. 671089=00 by adjustement

Date

Executive Engineer

Asst. Engineer
yelahanka Division
BBMP

Exe. Engineer
yelahanka Division
BBMP

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
1	2	3	4	5	6	7	8	9	10
1	Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3).	sqm			282.15	80.56	22730.00	282.15	22730.00
2	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3	cum			246.05	86.92	21386.67	246.05	21386.67
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2	cum			12.48	5348.76	66752.52	12.48	66752.52
4	Providing and laying Plain /reinforced cement concrete for side drains wall and bottom thickness 15cm using M20 nominal mix concrete with OPC cement at 300kg with 20mm and down size granite metal coarse aggregate at 0.69 cum and fine aggregate at 0.43 cum machine mixed well compacted for walls at bottom including centring shuttering cost of materials HOM of machineries curing etc.completeexcluding cost of steel as per MORTH specification No.1500,1700,2200	cum			51.76	11032.48	571041.16	51.76	571041.16

Sl. No.	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
5	KSRB 4.9.2 : Providing T .M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500	tonne			3.30	59413.00	196062.90	3.30	196062.90
6	Providing granite slabs of selected quality roughly dressed and fixed in cement mortor (1:6) inclduing fixing curing etc.., complete 10 cm thick	sqm			86.10	825.74	71096.21	86.10	71096.21
7	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-	sqm			142.71	1757.00	250741.47	142.71	250741.47
8	Poviding granite slab of 250 mm thick inclduing cost of all materials labours curing transporation loading unloading etc.., complete as per the direction of engineer in charges	sqm			32.55	4725.00	153798.75	32.55	153798.75
9	KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301	cum			675.00	48.76	32913.00	675.00	32913.00

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Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
10	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material	cum			337.97	1665.26	562807.92	337.97	562807.92
11	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite/trap/basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406	cum			301.42	1768.08	532936.08	301.42	532936.08
12	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502	sqm			1219.26	27.56	33602.81	1219.26	33602.81

Sl. No.	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
13	KSRRB 500-7. Providing and applying tack coat using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5	sqm			1219.26	11.66	14216.57	1219.26	14216.57
14	KSRRB M500- 17. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and filler, transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500-10 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507	cum			60.96	6435.26	392293.45	60.96	392293.45
15	KSRRB M500- 19. Providing, laying bituminousConcrete using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and filler , transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500.9 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509	cum			36.58	7270.54	265956.35	36.58	265956.35

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
16	KSRRB M600-1. Construction of dry lean cement concrete mix M5 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383,) aggregate cement ratio not to exceed 15:1,aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601	cum			68.18	3986.66	271810.48	68.18	271810.48

Sl. No.	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
17	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M30(at 360 kg per cum coarse aggregate @ 0.69 cum and fine aggregate @0.46 cum) , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 eaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of	cum			136.35	6217.96	847818.85	136.35	847818.85
18	Lead for disposal of earth shall be paybale at carriage rates (Lead & ltft) by mechanical means incldung loading and unloading upto 7 kms	cum			921.05	90.40	83262.92	921.05	83262.92
19	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No	sqm			41.20	542.72	22360.06	41.20	22360.06
				TOTAL			4413589.98		4413589.98
				Cost towards preparation of DPR,PM / QC@2%			88271.80		88271.80
				KRIDL Charges 8%+ Labour cess 1%			400754.00		400754.00
				GRAND TOTAL			4902616.00		4902616.00

4890812.00 4810812.00

Ward No 03

Assistant Excecutive Engineer
Yelahanka Satellite Town Sub Division